



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Regional Office, 627 Main Street, Worcester, MA 01608

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

IAN A. BOWLES
Secretary

LAURIE BURT
Commissioner

Peter Hosford, EH&S Engineer
Evergreen Solar, Inc.
259 Cedar Hill Street
Marlborough, MA 01752

RE: Devens
Central Region
BWP IW 39 - NIPPLG
Final Permit for Industrial Sewer User
M.G.L. c. 21, §§ 26-53, and
314 CMR 7.00 and 2.06
Transmittal No. W151393

Dear Mr. Hosford:

Issuance Date: *November 8, 2007*

Enclosed is your industrial wastewater sewer discharge permit BWP IW 39 for your proposed facility on Barnum Road in Devens, Massachusetts. The permit is issued pursuant to the Massachusetts Clean Water Act (the "State Act"), M.G.L. c. 21, §§ 26-53, as amended, and the regulations 314 CMR 7.00 and 314 CMR 2.00 promulgated thereunder. The enclosed document, together with Attachments A-E (which are not included in this correspondence) of your August 31, 2007 submittal, constitute your industrial wastewater discharge permit.

MassDEP received no comments objecting to the issuance or terms of the permit during the public comment period ending October 20, 2007. Therefore, in accordance with 314 CMR 2.08, the permit is effective upon the issuance date noted above. Pursuant to 314 CMR 7.10(3), the permit shall remain in effect for a period of 5 years. Please carefully review the enclosed permit, paying particular attention to the Special Conditions in the Attachment which are part of the permit.

This Decision is an action of MassDEP. If you are aggrieved by this action, you may request an adjudicatory hearing. A request for a hearing must be made in writing and postmarked within thirty (30) days of the date of issuance of this Decision. Under 310 CMR 1.01(6)(b), the request must state clearly and concisely the facts, which are the grounds for the request, and the relief sought. Additionally, the request must state why the Decision is not consistent with applicable laws and regulations. The hearing request along with a valid check payable to Commonwealth of Massachusetts in the amount of one hundred dollars (\$100.00) must be mailed to: Commonwealth of Massachusetts, MassDEP, P.O. Box 4062, Boston, MA 02211.



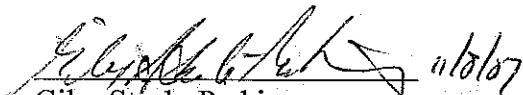
Page 2

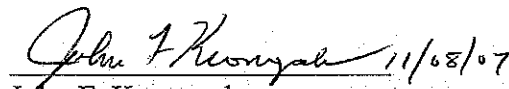
The request will be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a waiver as described below. The filing fee is not required if the appellant is a city or town (or municipal agency), county, or district of the Commonwealth of Massachusetts, or a municipal housing authority. MassDEP may waive the adjudicatory hearing-filing fee for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, together with the hearing request as provided above, an affidavit setting forth the facts believed to support the claim of undue financial hardship.

Please be advised that pursuant to the provisions of MassDEP's regulations at 310 CMR 4.03(2), effective July 13, 2007, an annual fee, based on the MassDEP's fiscal year, will be billed to your facility to cover the cost of compliance activities performed by MassDEP, including report reviews, inspections and coordination activities with the local municipal wastewater treatment facility into whose system your company discharges its pretreated industrial wastewater. At the current time that annual fee is one hundred seventy-five dollars (\$175.00).

Should you have any questions concerning this matter, please do not hesitate to contact Giles Steele-Perkins at (508) 767-2767.

Very truly yours,


Giles Steele-Perkins
Environmental Analyst
Bureau of Waste Prevention


John F. Kronopolus
Section Chief
Bureau of Waste Prevention

enclosure

cc: John Browning, CH2M Hill
Richard Montuori, MassDevelopment/Devens
ecc: John Reinhardt, Mingyuan Pan, Kellie Ingram, Anthony Abruzese, Thomas Higgins,
MassDEP, Boston



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393
Transmittal Number

Facility ID# (if known)

DEP Use Only

Date Received

Important Instructions for Completing This Form

The questions on this form apply to existing and new facilities discharging industrial wastewater to sewers. If you are completing this form for an existing facility, answer the questions as they apply to its current status. If you are completing this form for a new facility, your answers will reflect your commitment to comply with the requirements as set forth in each question.

Existing facilities are defined as facilities in existence as of July 12, 2007. New facilities are defined as facilities constructed after July 12, 2007.

Answer all questions, except those that you are directed to skip. Please DO NOT answer questions that you are directed to skip

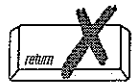
Permit Category (Select One)

☐ BWP IW 38: Industrial Sewer User in IPP POTW discharging more than 50,000 GPD

☒ BWP IW 39: Industrial Sewer User in Non-IPP POTW discharging more than 25,000 GPD

A. Facility Information

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Evergreen Solar

1a. Facility Name

Lot 2 Barnum Road

1b. Facility Address 1

1c. Facility Address 2

Devens

1d. City

508-357-2221

1g. Phone Number

043242254

1i. Federal Employer Tax Identification Number (FEIN or TIN)

Massachusetts

1e. State

01434

1f. Zip Code

508-229-0747

1h. Fax Number

Mailing Address: ☐ Check here if same as Facility Address and skip to Contact Information.

259 Cedar Hill Street

2a. Mailing Address: Street or P.O. Box

2b. Mailing Address 2

Marlborough

2c. City

Massachusetts

2d. State

01752

2e. Zip Code

Contact Information:

Peter Hosford

3a. Contact Person Name

HSE Manager

3b. Contact Person Title

508-357-2221

3c. Phone Number

7843

3d. Extension

phosford@evergreensolar.com

3e. Email Address



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393

Transmittal Number

Facility ID# (if known)

B. Industrial Wastewater Information

1. Project Description (Check All That Apply)

☒ 1a. New Construction

☐ 1b. Permit Renewal

☐ 1c. Increasing Flow From Existing Connection

☒ 1d. New or Modified Industrial Wastewater
Pretreatment System (IWPS)

☐ 1e. Existing Unpermitted Connection
(Constructed Before 7/12/07)

2. List, in descending order of significance, the Standard Industrial Classification (SIC) codes, which best describe the facility producing the discharge in terms of the principal products or services provided. Also, specify each classification title. (See Appendix B in the Instructions)

3674

2a. SIC Code

Semiconductor and Relates Devices

Description

2b. SIC Code

Description

2c. SIC Code

Description

2d. SIC Code

Description

3. List all sewer connection(s) and their maximum daily flow(s) in gallons per day (GPD) from your facility going to the Publicly Owned Treatment Works (POTW):

	1 3a. Connection #	3b. Connection #	3c. Connection #	3d. Total Flow, All Connections
SANITARY	72,000 GPD	GPD	GPD	72,000 GPD
INDUSTRIAL	506,880 GPD	GPD	GPD	506,880 GPD
TOTAL	578,880 GPD	GPD	GPD	578,880 GPD

4. Are you in compliance with the Massachusetts Historical Commission requirements?

☒ Yes

☐ No*

*If No, You Must Comply With Massachusetts Historical Commission
Requirements **BEFORE** You Can Submit This Application.

5. Are you in compliance with Massachusetts Environmental Policy Act (MEPA) requirements?

☒ Yes

☐ No*

*If No, You Must Comply With MEPA Requirements **BEFORE** You Can
Submit This Application.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393

Transmittal Number

Facility ID# (if known)

B. Industrial Wastewater Information (continued)

6. Check all pollutants that are present in your industrial wastewater **before** pretreatment, or if not treated, before discharge:

☒ 6a. Metals, Asbestos, Cyanide, Phenols

If Metals, Asbestos, Cyanide, or Phenols are present, provide concentrations in milligrams per liter (mg/L):

1. Antimony (total) (Sb)	0 mg/L	9. Nickel (total) (Ni)	<1.0 mg/L
2. Arsenic (total) (As)	<0.02 mg/L	10. Selenium (total) (Se)	<0.06 mg/L
3. Beryllium (total) (Be)	0 mg/L	11. Silver (total) (Ag)	<0.02 mg/L
4. Cadmium (total) (Cd)	<0.038 mg/L	12. Thallium (total) (Tl)	0 mg/L
5. Chromium (hexavalent)	<1.0 Total Cr mg/L	13. Zinc (total) (Zn)	<0.5 mg/L
6. Chrome (total) (Cr)	0 mg/L	14. Asbestos	0 mg/L
7. Copper (total) (Cu)	<0.2 mg/L	15. Cyanide (total) (CN)	0 mg/L
8. Lead (total) (Pb)	<0.03 mg/L	16. Phenols (total)	0 mg/L

☒ 6b. Toxic Pollutants (See Section 17B in the Instructions.)

If Toxic Pollutants are present, provide the total Toxic Pollutants concentration in micrograms per liter (ug/L):

5.12

6b1. Total Toxic Pollutants Concentration (ug/L)

NOTE: Use the **Toxic Pollutants Form** to list individual toxic chemicals and their concentrations.

☐ 6c. Total Petroleum Hydrocarbons (TPH) > 15 mg/L

☐ 6d. pH <5 and >10 Standard Units (S.U)

☐ 6e. Other*

*If Other Pollutants are present, describe them:

Other conventional pollutants potentially present include total suspended solids (<400 mg/l) and biochemical oxygen demand (<400 mg/l). Figure B-1 in Attachment B provides a material balance and final effluent concentrations for the ionic species associated with the primary process chemicals used in the manufacturing process.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393

Transmittal Number

Facility ID# (if known)

B. Industrial Wastewater Information (continued)

7. Is Mercury (Hg) present in your industrial wastewater **before** pretreatment, or if not treated, before discharge?

☐ Yes

☒ No*

*If No, skip to Question 8.

7a. If Yes, have you identified all possible mercury sources and taken all reasonable steps to eliminate the mercury?

☐ Yes*

☐ No

*If Yes, skip to Question 8.

7b. If No, explain why.

Mercury is not present as a raw material used in the manufacturing process. Analytical testing of wastewater effluent at Evergreen's existing Marlborough, MA facility indicates nondetectable levels of Mercury (detection limit: 0.0002 mg/l total mercury)

NOTE: As of May 1, 2009, all facilities must meet a discharge limit of 1 part per billion (ppb) for Mercury.

8. What is the name of the Publicly Owned Treatment Works (POTW) that receives your wastewater? (See Appendix C in the Instructions.)

Devens Regional Wastewater Treatment Facility
Name of POTW

9. Do you have a current sewer connection discharge permit or a current written approval issued by your local POTW? (See Section 17B in the Instructions.)

☒ Yes

☐ No*

*If No, you must obtain either a permit or, if a permit is not required, a written approval from your local POTW to discharge **BEFORE** you can submit this application.

If you have a permit, provide the following information, then skip to Question 10.

9a. Permit Number

9b. Permit Expiration Date

If you have a written approval, provide the following information:

July 20, 2007 (see Attachment E)

9c. Date of Approval Letter

Richard Montuori, VP, Devens Operations

9d. Name of Person Who Signed the Letter

10. Are your POTW and local Sewer Authority the same entity? (See Section 17B in the Instructions.)

☒ Yes*

☐ No

*If Yes, skip to Question 12.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater

BWP IW 38 & BWP IW 39

Permit for Industrial Sewer User

W151393

Transmittal Number

Facility ID# (if known)

B. Industrial Wastewater Information (continued)

11. Do you have a current sewer connection discharge permit or a current written approval issued by your local Sewer Authority? (See Section 17B in the Instructions.)

☐ Yes

☐ No*

If No, you must obtain either a permit or written approval from your local Sewer Authority to discharge **BEFORE** you can submit this application.

If you have a permit, provide the following information, then skip to Question 12.

11a. Permit Number

11b. Permit Expiration Date

If you have a written approval, provide the following information:

11c. Date of Approval Letter

11d. Name of Person Who Signed the Letter

12. Is your facility currently classified as a Categorical Industrial User (CIU) pursuant to Federal Regulations? (See Appendix D in the Instructions.)

☒ Yes

☐ No*

*If No, skip to Section C.

12a. List all the Categorical Pretreatment Standards applicable to your facility.

40 CFR Part 469.18

Electrical & Electronic Components

12a1. Part Number

Point Source Category

12a2. Part Number

Point Source Category

12a3. Part Number

Point Source Category

12a4. Part Number

Point Source Category

C. Industrial Wastewater Pretreatment System

1. Do you have an on-site industrial wastewater pretreatment system (IWPS) to treat your industrial wastewater?

☒ Yes

☐ No*

*If No, skip to Section D.

1a. How many IWPSs do you have?

3

Number

NOTE: If you have more than one IWPS, please use an **Additional IWPS Form** for each additional IWPS.

1b. Provide a unique identifier (i.e. name) for this IWPS:

HF Wastewater

Identifier/Name



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393
Transmittal Number

Facility ID# (if known)

C. Industrial Wastewater Pretreatment System (continued)

1c. What is the Total Design Capacity of this IWPS?

20,200

Gallons Per Day

1d. What is the Average Daily Flow of this IPWS? (Estimate if this is a new facility.)

16,160

Gallons Per Day

1e. What is the Maximum Daily Flow of this IWPS? (Estimate if this is a new facility.)

20,200

Gallons Per Day

2. Is your IWPS designed and constructed to meet all local discharge standards and the applicable Categorical Industrial User (CIU) standards in 40 CFR Chapter I, Subchapter N?

☒ Yes

☐ No*

*If No, you must take immediate steps to address the non-compliance **BEFORE** you can submit this application.

3. Does this IWPS treat hazardous industrial wastewater or hazardous industrial wastewater sludge as defined in 314 CMR 7.02?

☒ Yes

☐ No*

*If No, skip to Question 12.

3a. Are you treating concentrated chemical baths, e.g. spent chemical baths, or off-specification products?

☒ Yes

☐ No*

*If No, skip to Question 4.

3b. If Yes, describe the concentrated chemical baths you are treating.

The concentrated aqueous chemical baths contain hydrofluoric acid, nitric acid, sulfuric acid and hydrochloric acid.

4. Does your IWPS meet the requirements of "treatment which is an integral part of the manufacturing process" as defined in 310 CMR 30.010?

☒ Yes*

☐ No

*If Yes, skip to Question 7.

5. Do you store hazardous industrial wastewater or hazardous industrial wastewater sludge that is generated in your IWPS or in your production processes, in tanks or containers?

Note: If you use in-ground tanks for storage of hazardous industrial wastewater or sludge and your IWPS is located in a Drinking Water Zone (see Section 17C of the Instructions; reference language in 310 CMR 30.605), you are not eligible to apply for a BWP IW 38 or BWP IW 39 permit. You must use form BWP IW 40 instead.

☐ Yes

☐ No*

*If No, skip to Question 7.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393
Transmittal Number

Facility ID# (if known)

C. Industrial Wastewater Pretreatment System (continued)

6. Are you in compliance with the requirements for tanks and containers in 310 CMR 30.342 and 343? (See Section 17C in the Instructions)

☐ Yes

☐ No*

*If No, you must take immediate steps to address the non-compliance **BEFORE** you can submit this application.

7. Do you have a U.S. Environmental Protection Agency (EPA) hazardous waste generator identification number?

☐ Yes

☒ No*

*If No, skip to Question 7b.

7a. What is your EPA identification number?

Skip to Question 8.

EPA ID #

7b. Explain why you do not have an EPA identification number.

The facility is not constructed or in operation. Prior to generating hazardous waste an EPA identification number will be obtained.

8. Do you have a visible sign in place that warns against unauthorized entry into the IWPS area?

☐ Yes*

☒ No

*If Yes, skip to Question 9.

8a. Explain why you do not have a visible sign in place.

Facility is not constructed or in operation. Appropriate signage will be specified in project plans.

9. Do you have the required spill containment for the IWPS? (See Section 17C in the Instructions.)

☒ Yes*

☐ No

*If Yes, skip to Question 10.

9a. Explain why you do not have the required spill containment.

10. Is your IWPS located on land subject to flooding from a 100-year storm? (See Section 17C in the Instructions.)

☐ Yes

☒ No*

*If No, skip to Question 12.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393
Transmittal Number

Facility ID# (if known)

C. Industrial Wastewater Pretreatment System (continued)

11. Are you in compliance with the flood-proofing provisions in 310 CMR 30.701(2)? (See Section 17C in the Instructions.)

☐ Yes

☐ No*

*If Yes, skip to Question 12.

11a. Explain why you are not in compliance with the flood-proofing provisions in 310 CMR 30.701(2).

12. What type of IWPS do you have? (Check all that apply.)

☒ Fully Automated Industrial Wastewater Pretreatment System (FAIWPS)

☒ Continuous Discharge IWPS

☐ Batch IWPS

13. Is the IWPS exempt from classification? (See Section 17C in the Instructions.)

☐ Yes*

☒ No

*If Yes, skip to Question 14.

13a. What is the classification of this IWPS? (See 257 CMR 2.13: Classification of Wastewater Treatment Facilities.)

☐ Class 1I

☐ Class 2I

☐ Class 3I

☐ Class 4I

☒ Class 5 or 6C

☐ Class 1M

☐ Class 2M

☐ Class 3M

☐ Class 4M

13b. How was the IWPS' classification determined?

☐ In accordance with the requirements in 314 CMR 7.05(2)(g) 4. c. or d.

☒ By the Board of Certification of Operators of Wastewater Treatment Facilities

☐ Both

14. Is the IWPS staffed in accordance with the requirements of 314 CMR 7.05(2)(g) 5? (See Section 17C in the Instructions.)

☒ Yes*

☐ No

*If Yes, skip to Question 15.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393
Transmittal Number

Facility ID# (if known)

C. Industrial Wastewater Pretreatment System (continued)

14a. Explain why the IWPS is not staffed in accordance with 314 CMR 7.05(2)(g) 5.

15. Is this your first permit application under Permit Category BWP IW 38 or BWP IW 39 for this IWPS? Or, is this application a request for modification of this IWPS that currently has a BWP IW 38 or BWP IW 39 permit?

☒ Yes*

☐ No

*If Yes, you need to submit as an attachment the process flow diagram and description of the principal treatment processes for your IWPS. Otherwise, skip to Question 17.

16. How many attachments are included with this application in response to Question 15?

2 - See Attachments B & C

Number of Attachments

17. Have your sewer connection and IWPS been designed and constructed in compliance with the design and construction standards as set forth in 314 CMR 7.05(2)(g)3?

☒ Yes

☐ No*

*If No, skip to Question 17b.

17a. What is the Massachusetts Registered Professional Engineer (MAPE) signature date on the engineering plans?

8/23/07

Skip to Question 18.

Date

17b. Explain why your sewer connection and IWPS have not been designed and constructed in compliance with the design and construction standards as set forth in 314 CMR 7.05(2)(g)3.

18. Provide the following information about the Massachusetts Registered Professional Engineer (MAPE) who reviewed, stamped, and signed your engineering plans:

Gail Lutz

18a. Name

45355

18c. Mass. P.E. License Number

412-604-4066

18b. Phone Number

Chemical Engineer

18d. Mass. P.E. Specialty



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393
Transmittal Number

Facility ID# (if known)

C. Industrial Wastewater Pretreatment System (continued)

19. Do you have an IWPS operation and maintenance manual that complies with the procedures and other requirements in 314 CMR 7.05(2)(g)6.?

☐ Yes*

☒ No

*If Yes, skip to Question 20.

19a. Explain why you do not have the required IWPS operation and maintenance manual.

The facility is not constructed or in operation. Operation and Maintenance manuals will be supplied by the wastewater treatment system equipment vendors. Upon facility start-up, the O&M manuals will be updated/modified to be compliant with 314 CMR 7.05(2)(g)6.

20. Are you keeping your IWPS operation and maintenance manual current?

☒ Yes

☐ No

21. Are you implementing your IWPS operation and maintenance manual?

☒ Yes

☐ No

D. Monitoring, Reporting & Recordkeeping

1. Are you keeping your currently effective sewer discharge permit(s), IWPS plan(s), and current operation and maintenance manual(s) (as applicable) on-site at all times?

☐ Yes*

☒ No

* If Yes, skip to Question 2.

1a. Explain why you are not keeping these records on-site at all times.

The facility is not constructed or in operation. Upon facility start-up, permits, IWPS plans and O&M manuals will be maintained on-site at all times.

2. Are you keeping all your required records including your wastewater monitoring and analyses records, operation and maintenance records and logs, bills of lading, summary reports of all incidents requiring implementation of the safety plan, and hazardous waste manifests (as applicable) on-site for at least three years?

☐ Yes*

☒ No

* If Yes, skip to Question 3.

2a. Explain why you are not keeping these records on-site for at least three years.

Facility is not constructed or in operation. Upon facility start-up these records will be maintained on-site for at least three years.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393

Transmittal Number

Facility ID# (if known)

D. Monitoring, Reporting & Recordkeeping (continued)

3. [Reserved for Toxics Reporting]

Additional reporting requirements will be added to this section in the future.

E. General & Specific Prohibitions

1. After carefully reviewing all of the general and specific prohibitions listed below, are you in compliance with these General and Specific Prohibitions?

☒ Yes*

☐ No

*If Yes, read Section F and then complete Section G.

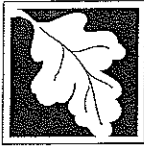
1a. Identify all the prohibitions you are not in compliance with and explain why. Attach an additional sheet of paper to this form, if necessary.

1. General Prohibitions. The permittee shall not:

- a. Discharge, or cause to be discharged to a POTW, any substances, materials, or wastewater that may:
 - i. harm the sewers, POTW wastewater treatment process or equipment;
 - ii. have an adverse impact on the receiving waters; or
 - iii. otherwise create a nuisance or endanger public health, safety, or the environment.
- b. Introduce pollutants into POTWs that pass through the POTW or interfere with its operation or performance.
- c. Discharge wastewater or allow discharge of wastewater through any sewer connection that would result in a hazard to the public health or safety.
- d. Discharge bypass wastewater or allow discharge of bypass wastewater through any sewer connection. If bypassing due to an emergency condition occurs, the Department and POTW shall be notified in accordance with 314 CMR 7.04(3). Such notification or its acknowledgement shall not be construed as permission by the Department or POTW to discharge bypass wastewater.
- e. Discharge hazardous waste or allow the discharge of hazardous waste through any sewer connection.

2. Specific Prohibitions. The permittee shall not introduce into a POTW or its wastewater collection system the following:

- a. Pollutants which may create a fire, explosion, or other hazard in the POTW or its wastewater collection system.
- b. Pollutants which may cause corrosive structural damage to the POTW or its wastewater collection system. In no case shall discharges with a pH lower than 5.0 Standard Unit (S.U) or more than 10.0 S.U. be allowed, unless the local limit allows such discharges.
- c. Solid or viscous pollutants in amounts which may cause obstruction to the flow in the POTW or its wastewater collection system or may result in interference.
- d. Any pollutant, including oxygen-demanding pollutants, discharged at a flow rate or pollutant concentration that will cause interference with the POTW or its wastewater collection system.
- e. Heat in amounts which may inhibit biological activity in the POTW, resulting in interference. In no case shall heat in such quantities that the temperature at the POTW treatment plant exceeds 40° C (104° F) be discharged, unless the Department, upon request of the POTW, approves alternate temperature limits.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393
Transmittal Number

Facility ID# (if known)

F. Additional Conditions

- a. All discharges shall be in compliance with the terms and conditions of this permit. The discharge of any wastewater at a level in excess of that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such a violation may result in the imposition of civil and/or criminal penalties as provided for in M.G.L. c.21, Section 42.
- b. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - i. Violation of any terms or conditions of the permit;
 - ii. Obtaining a permit by misrepresentation or failure to disclose fully all relevant facts; or
 - iii. A change in conditions or the existence of a condition, which requires either a temporary or permanent reduction, or elimination of the authorized discharge.
- c. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges; nor does it authorize or relieve the permittee of any liability for any injury to private property or any invasion of personal rights; nor any infringement of Federal, State, or local laws or regulations; nor does it waive the necessity of obtaining any local assent required by law for the discharge authorized herein by the Department.
- d. The provisions of this permit are severable, and the invalidity of any condition or subdivision thereof shall not make void any other condition or subdivision thereof.
- e. All information and data provided by an applicant or a permittee identifying the nature and frequency of a discharge shall be available to the public without restriction. All other information (other than effluent data) which may be submitted by an applicant in connection with a permit application shall also be available to the public unless the applicant or permittee is able to demonstrate that the disclosure of such information or particular part thereof to the general public would divulge methods or processes entitled to protection as trade secrets in accordance with the provisions of M.G.L. c.21, Section 27(7). Where the applicant or permittee is able to so demonstrate, the Department shall treat the information or the particular part (other than effluent data) as confidential and not release it to any unauthorized person. Such information may be divulged to other officers, employees, or authorized representatives of the Commonwealth or the United States Government concerned with the protection of public water or water supplies.
- f. Transfer of Permits. Any sewer system connection permit authorizing an industrial discharge to a sewer system is only valid for the person to whom it is issued, unless prior to transfer:
 - i. The current permittee notifies the Department in writing at least 30 days in advance of the proposed transfer date; and
 - ii. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibilities, and liability to the new permittee.
- g. This permit authorizing the discharge expires five (5) years from the date of issuance. The permittee shall apply for a renewal of this permit at least ninety (90) days prior to the expiration date, in accordance with 314 CMR 7.09(3)(b) for continued lawful discharges beyond the expiration date.
- h. All solids, sludge, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be collected, treated, and disposed of in accordance with applicable provisions in the following:
 - i. Hazardous waste regulations (310 CMR 30.000).
 - ii. Solid waste regulations (310 CMR 19.00).
 - iii. Sewer discharge regulations (314 CMR 7.00).
 - iv. Any other applicable federal, state and local laws.
- i. All samples shall be analyzed by a Massachusetts Certified Laboratory.
- j. The permittee shall provide the Department, and the Department's employees, authorized representatives and contractors, access at to the facility at all reasonable times, including during wastewater treatment system operation or wastewater discharge, for purposes of conducting activities related to oversight of this permit, including inspections to monitor compliance with the terms herein. The permittee shall allow the Department to obtain information related to compliance with the requirements of this permit. Notwithstanding any provision of this permit, the Department retains all of its access authorities and rights under applicable state and federal law.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
BWP IW 38 & BWP IW 39
Permit for Industrial Sewer User

W151393
Transmittal Number

Facility ID# (if known)

G. Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I certify that this facility is in compliance with all conditions and requirements of this permit, and all applicable statutes and regulations. I further certify that systems to maintain compliance are in place at the facility or unit and will be maintained even if processes or operating procedures are changed. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations."

(I will be responsible for publication of public notice of the applicable permit proceedings identified under 314 CMR 2.06(1)(a) through (d).)

Rodolfo Archbold
Printed Name of Applicant
VP of Operations
Title
signature on file
Signature of Applicant
8/22/07
Date Signed

John Browning, P.E.
Name of Preparer
Environmental Engineer
Title
(503) 872-4687
Phone Number

MassDEP Use Only

Special Conditions:

See Attachment

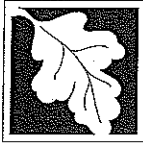
This document is a permit issued pursuant to Massachusetts General Laws, Chapter 21, Section 43 and Massachusetts regulations at 314 CMR 7.00. The permittee shall comply with all of the provisions contained in the permit application which are hereby incorporated and made part of this permit.

November 08, 2007
Date Issued

November 08, 2007
Permit Effective Date

John F. Kronopolus
Name of Regional BWP Section Chief

November 07, 2012
Permit Expiration Date
John F. Kronopolus
Signature



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater

BWP IW 38 & BWP IW 39

Permit for Industrial Sewer User

W151393
Transmittal Number

Facility ID# (if known)

ATTACHMENT

Special Conditions:

1. The permittee shall maintain compliance with MassDevelopment's sewer use requirements and the terms and conditions of any applicable industrial wastewater permits issued by MassDevelopment.
2. The permittee shall comply with the applicable Effluent Guidelines and Standards at 40 CFR Part 469 – Electrical and Electronic Components Point Source Category. This includes but may not be limited to Subpart A – Semiconductor Subcategory and Subpart B – Electronic Crystals Subcategory.
3. The permittee shall notify MassDEP of additional Effluent Guidelines and Standards as they are determined to be applicable to the facility.
4. The documents and materials attached to and referenced in the permit application are incorporated as part of the permit.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Additional IWPS Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

Instructions: Submit a completed copy of this form for each additional Industrial Wastewater Pretreatment System (IWPS) not identified on your BWP IW 38/BWP IW 39 permit application.

Industrial Wastewater Pretreatment System (IWPS) Information

NOTE: Question numbers on this form are identical with those on the BWP IW 38/BWP IW 39 permit application or Industrial Sewer Connection Certification forms. Questions 1 and 1a have been intentionally omitted.

1b. Please provide a unique identifier (i.e. name) for this IWPS:

General Wastewater

Identifier/Name

1c. What is the Total Design Capacity of this IWPS?

198,270

Gallons Per Day

1d. What is the Average Daily Flow of this IPWS? (Estimate if this is a new facility.)

159,000

Gallons Per Day

1e. What is the Maximum Daily Flow of this IWPS? (Estimate if this is a new facility.)

198,720

Gallons Per Day

2. Is your IWPS designed and constructed to meet all local discharge standards and the applicable Categorical Industrial User (CIU) standards in 40 CFR Chapter I, Subchapter N?

☒ Yes

☐ No*

*If No, you must take immediate steps to address the non-compliance **BEFORE** you can submit this application.

3. Does this IWPS treat hazardous industrial wastewater or hazardous industrial wastewater sludge as defined in 314 CMR 7.02?

☒ Yes

☐ No*

*If No, skip to Question 12.

3a. Are you treating concentrated chemical baths, e.g. spent chemical baths, or off-specification products?

☒ Yes

☐ No*

*If No, skip to Question 4.

3b. If Yes, describe the concentrated chemical baths you are treating:

The concentrated aqueous chemical baths contain hydrofluoric acid, nitric acid, sulfuric acid, hydrochloric acid, and potassium hydroxide.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Additional IWPS Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

IWPS Information (continued)

4. Does your IWPS meet the requirements of "treatment which is an integral part of the manufacturing process" as defined in 310 CMR 30.010?

☒ Yes*

☐ No

*If Yes, skip to Question 7.

5. Do you store hazardous industrial wastewater or hazardous industrial wastewater sludge that is generated in your IWPS or in your production processes and stored in tanks or containers?

Note: If you use in-ground tanks for storage of hazardous industrial wastewater or sludge and your IWPS is located in a Drinking Water Zone (see Section 17C of the Instructions; reference language in 310 CMR 30.605), you are not eligible to apply for a BWP IW 38 or BWP IW 39 permit. You must use form BWP IW 40 instead.

☐ Yes

☐ No*

*If No, skip to Question 7.

6. Are you in compliance with the requirements for tanks and containers in 310 CMR 30.342 and 343? (See Section 17C in the Instructions)

☐ Yes

☐ No*

*If No, you must take immediate steps to address the non-compliance **BEFORE** you can submit this application.

7. Do you have a U.S. Environmental Protection Agency (EPA) hazardous waste generator identification number?

☐ Yes

☒ No*

*If No, skip to Question 7b.

7a. What is your EPA identification number?

Skip to Question 8.

EPA ID #

7b. Explain why you do not have an EPA identification number.

The facility is not constructed or in operation. Prior to generating hazardous waste an EPA identification number will be obtained.

8. Do you have a visible sign in place that warns against unauthorized entry into the IWPS area?

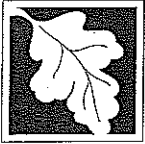
☐ Yes*

☒ No

*If Yes, skip to Question 9.

8a. Explain why you do not have a visible sign in place.

Facility is not constructed or in operation. Appropriate signage will be specified in project plans.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Additional IWPS Form
Use With BWP IW 38 & BWP IW 39

W151393
Transmittal Number

Facility ID# (if known)

Permit Code

Additional IWPS Information (continued)

9. Do you have the required spill containment for the IWPS? (See Section 17C in the Instructions.)

☒ Yes*

☐ No

*If Yes, skip to Question 10.

9a. Explain why you do not have the required spill containment.

10. Is your IWPS located on land subject to flooding from a 100-year storm? (See Section 17C in the Instructions.)

☐ Yes

☒ No*

*If No, skip to Question 12.

11. Are you in compliance with the flood-proofing provisions in 310 CMR 30.701(2)? (See Section 17C in the Instructions.)

☐ Yes*

☐ No

*If Yes, skip to Question 12.

11a. Explain why you are not in compliance with the flood-proofing provisions in 310 CMR 30.701(2).

12. What type of IWPS do you have? (Check all that apply.)

☒ Fully Automated Industrial Wastewater Pretreatment System (FAIWPS)

☒ Continuous Discharge IWPS

☐ Batch IWPS

13. Is the IWPS exempt from classification? (See Section 17C in the Instructions.)

☐ Yes*

☒ No

*If Yes, skip to Question 14.

13a. What is the classification of this IWPS? (See 257 CMR 2.13: Classification of Wastewater Treatment Facilities.)

☐ Class 1I

☒ Class 2I

☐ Class 3I

☐ Class 4I

☐ Class 5 or 6C

☐ Class 1M



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Additional IWPS Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

☐ Class 2M

☐ Class 3M

☐ Class 4M

Additional IWPS Information (continued)

13b. How was the IWPS' classification determined?

☒ 13b1. In accordance with the requirements in 314 CMR 7.05(2)(g) 4. c. or d.

☐ 13b2. By the Board of Certification of Operators of Wastewater Treatment Facilities

☐ 13b3. Both

14. Is the IWPS staffed in accordance with the requirements of 314 CMR 7.05(2)(g) 5? (See Section 17C in the Instructions.)

☒ Yes*

☐ No

*If Yes, skip to Question 15.

14a. Explain why the IWPS is not staffed in accordance with 314 CMR 7.05(2)(g) 5.

15. Is this your first permit application under Permit Category BWP IW 38 or BWP IW 39 for the IWPS? Or, is this application a request for modification of the IWPS that currently has a BWP IW 38 or BWP IW 39 permit?

☒ Yes*

☐ No

*If Yes, you need to submit as an attachment the process flow diagram and description of the principal treatment processes for your IWPS.

16. How many attachments are included with this application in response to Question 15?

2 (See Attachments B & C)

Number of Attachments

17. Have your sewer connection and IWPS been designed and constructed in compliance with the design and construction standards as set forth in 314 CMR 7.05(2)(g)3?

☒ Yes

☐ No*

*If No, skip to Question 17b.

17a. What is the Massachusetts Registered Professional Engineer (MAPE) signature date on the engineering plans?

8/23/07

Date

Skip to Question 18.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Additional IWPS Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

17b. Explain why your sewer connection and IWPS have not been designed and constructed in compliance with the design and construction standards as set forth in 314 CMR 7.05(2)(g)3.

18. Provide the name of the Massachusetts Registered Professional Engineer (MAPE) who reviewed, stamped, and signed your engineering plans:

Gail Lutz

18a. Name

45355

18c. Mass. P.E. License Number

412-604-4066

18b. Phone Number

Chemical Engineer

18d. Mass. P.E. Specialty

19. Do you have an IWPS operation and maintenance manual that complies with the procedures and other requirements in 314 CMR 7.05(2)(g)6.?

☐ Yes*

☒ No

*If Yes, skip to Question 20.

19a. Explain why you do not have an IWPS operation and maintenance manual.

The facility is not constructed or in operation. Operation and Maintenance manuals will be supplied by the wastewater treatment system equipment vendors. Upon facility start-up, the O&M manuals will be updated/modified to be compliant with 314 CMR 7.05(2)(g)6.

20. Are you keeping your IWPS operation and maintenance manual current?

☒ Yes

☐ No

21. Are you implementing your IWPS operation and maintenance plan manual?

☒ Yes

☐ No



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Additional IWPS Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

Instructions: Submit a completed copy of this form for each additional Industrial Wastewater Pretreatment System (IWPS) not identified on your BWP IW 38/BWP IW 39 permit application.

Industrial Wastewater Pretreatment System (IWPS) Information

NOTE: Question numbers on this form are identical with those on the BWP IW 38/BWP IW 39 permit application or Industrial Sewer Connection Certification forms. Questions 1 and 1a have been intentionally omitted.

1b. Please provide a unique identifier (i.e. name) for this IWPS:

Dilute Silver Wastewater

Identifier/Name

1c. What is the Total Design Capacity of this IWPS?

28,800

Gallons Per Day

1d. What is the Average Daily Flow of this IPWS? (Estimate if this is a new facility.)

23,100

Gallons Per Day

1e. What is the Maximum Daily Flow of this IWPS? (Estimate if this is a new facility.)

28,800

Gallons Per Day

2. Is your IWPS designed and constructed to meet all local discharge standards and the applicable Categorical Industrial User (CIU) standards in 40 CFR Chapter I, Subchapter N?

☒ Yes

☐ No*

*If No, you must take immediate steps to address the non-compliance **BEFORE** you can submit this application.

3. Does this IWPS treat hazardous industrial wastewater or hazardous industrial wastewater sludge as defined in 314 CMR 7.02?

☐ Yes

☒ No*

*If No, skip to Question 12.

3a. Are you treating concentrated chemical baths, e.g. spent chemical baths, or off-specification products?

☐ Yes

☐ No*

*If No, skip to Question 4.

3b. If Yes, describe the concentrated chemical baths you are treating:



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Additional IWPS Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

IWPS Information (continued)

4. Does your IWPS meet the requirements of "treatment which is an integral part of the manufacturing process" as defined in 310 CMR 30.010?

☐ Yes*

☐ No

*If Yes, skip to Question 7.

5. Do you store hazardous industrial wastewater or hazardous industrial wastewater sludge that is generated in your IWPS or in your production processes and stored in tanks or containers?

Note: If you use in-ground tanks for storage of hazardous industrial wastewater or sludge and your IWPS is located in a Drinking Water Zone (see Section 17C of the Instructions; reference language in 310 CMR 30.605), you are not eligible to apply for a BWP IW 38 or BWP IW 39 permit. You must use form BWP IW 40 instead.

☐ Yes

☐ No*

*If No, skip to Question 7.

6. Are you in compliance with the requirements for tanks and containers in 310 CMR 30.342 and 343? (See Section 17C in the Instructions)

☐ Yes

☐ No*

*If No, you must take immediate steps to address the non-compliance **BEFORE** you can submit this application.

7. Do you have a U.S. Environmental Protection Agency (EPA) hazardous waste generator identification number?

☐ Yes

☐ No*

*If No, skip to Question 7b.

7a. What is your EPA identification number?

Skip to Question 8.

EPA ID #

7b. Explain why you do not have an EPA identification number.

8. Do you have a visible sign in place that warns against unauthorized entry into the IWPS area?

☐ Yes*

☐ No

*If Yes, skip to Question 9.

8a. Explain why you do not have a visible sign in place.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Additional IWPS Form
Use With BWP IW 38 & BWP IW 39

W151393
Transmittal Number

Facility ID# (if known)

Permit Code

Additional IWPS Information (continued)

9. Do you have the required spill containment for the IWPS? (See Section 17C in the Instructions.)

☐ Yes*

☐ No

*If Yes, skip to Question 10.

9a. Explain why you do not have the required spill containment.

10. Is your IWPS located on land subject to flooding from a 100-year storm? (See Section 17C in the Instructions.)

☐ Yes

☐ No*

*If No, skip to Question 12.

11. Are you in compliance with the flood-proofing provisions in 310 CMR 30.701(2)? (See Section 17C in the Instructions.)

☐ Yes*

☐ No

*If Yes, skip to Question 12.

11a. Explain why you are not in compliance with the flood-proofing provisions in 310 CMR 30.701(2).

12. What type of IWPS do you have? (Check all that apply.)

☒ Fully Automated Industrial Wastewater Pretreatment System (FAIWPS)

☒ Continuous Discharge IWPS

☐ Batch IWPS

13. Is the IWPS exempt from classification? (See Section 17C in the Instructions.)

☐ Yes*

☒ No

*If Yes, skip to Question 14.

13a. What is the classification of this IWPS? (See 257 CMR 2.13: Classification of Wastewater Treatment Facilities.)

☐ Class 1I

☒ Class 2I

☐ Class 3I

☐ Class 4I

☐ Class 5 or 6C

☐ Class 1M

☐ Class 2M

☐ Class 3M

☐ Class 4M



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Additional IWPS Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

Additional IWPS Information (continued)

13b. How was the IWPS' classification determined?

☒ 13b1. In accordance with the requirements in 314 CMR 7.05(2)(g) 4. c. or d.

☐ 13b2. By the Board of Certification of Operators of Wastewater Treatment Facilities

☐ 13b3. Both

14. Is the IWPS staffed in accordance with the requirements of 314 CMR 7.05(2)(g) 5? (See Section 17C in the Instructions.)

☒ Yes*

☐ No

*If Yes, skip to Question 15.

14a. Explain why the IWPS is not staffed in accordance with 314 CMR 7.05(2)(g) 5.

15. Is this your first permit application under Permit Category BWP IW 38 or BWP IW 39 for the IWPS? Or, is this application a request for modification of the IWPS that currently has a BWP IW 38 or BWP IW 39 permit?

☒ Yes*

☐ No

*If Yes, you need to submit as an attachment the process flow diagram and description of the principal treatment processes for your IWPS.

16. How many attachments are included with this application in response to Question 15?

2 (See Attachments B & C)

Number of Attachments

17. Have your sewer connection and IWPS been designed and constructed in compliance with the design and construction standards as set forth in 314 CMR 7.05(2)(g)3?

☒ Yes

☐ No*

*If No, skip to Question 17b.

17a. What is the Massachusetts Registered Professional Engineer (MAPE) signature date on the engineering plans?

8/23/07

Date

Skip to Question 18.



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Additional IWPS Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

17b. Explain why your sewer connection and IWPS have not been designed and constructed in compliance with the design and construction standards as set forth in 314 CMR 7.05(2)(g)3.

18. Provide the name of the Massachusetts Registered Professional Engineer (MAPE) who reviewed, stamped, and signed your engineering plans:

Gail Lutz

18a. Name

45355

18c. Mass. P.E. License Number

412-604-4066

18b. Phone Number

Chemical Engineer

18d. Mass. P.E. Specialty

19. Do you have an IWPS operation and maintenance manual that complies with the procedures and other requirements in 314 CMR 7.05(2)(g)6.?

☐ Yes*

☒ No

*If Yes, skip to Question 20.

19a. Explain why you do not have an IWPS operation and maintenance manual.

The facility is not constructed or in operation. Operation and Maintenance manuals will be supplied by the wastewater treatment system equipment vendors. Upon facility start-up, the O&M manuals will be updated/modified to be compliant with 314 CMR 7.05(2)(g)6.

20. Are you keeping your IWPS operation and maintenance manual current?

☒ Yes

☐ No

21. Are you implementing your IWPS operation and maintenance plan manual?

☒ Yes

☐ No



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Toxic Pollutants Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

Instructions: For the following groups of pollutants, check all that you know to be present in your industrial wastewater before pretreatment, and provide concentrations for the specific pollutants in the checked group(s).

☒ **100. Volatiles**

For all Volatile Organic Compounds (VOCs), provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
101. acrolein	ug/L
102. acrylonitrile	ug/L
103. benzene	ug/L
104. bis (chloromethyl) ether	ug/L
105. bromoform	0.58 ug/L
106. carbon tetrachloride	ug/L
107. chlorobenzene	ug/L
108. chlorodibromomethane	1.63 ug/L
109. chloroethane	ug/L
110. 2-chloroethylvinyl ether	ug/L
111. chloroform	1.38 ug/L
112. dichlorobromomethane	1.53 ug/L
113. dichlorodifluoromethane	ug/L
114. 1,1-dichloroethane	ug/L
115. 1,2-dichloroethane	ug/L
116. 1,1-dichloroethylene	ug/L
117. 1,2-dichloropropane	ug/L
118. 1,2-dichloropropylene	ug/L
119. ethylbenzene	ug/L
120. methyl bromide	ug/L
121. methyl chloride	ug/L



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Toxic Pollutants Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

100. Volatiles (continued)

Pollutant Name

Concentration

122. methylene chloride

ug/L

123. 1,1,2,2-tetrachloroethane

ug/L

124. tetrachloroethylene

ug/L

125. toluene

ug/L

126. 1,2-trans-dichloroethylene

ug/L

127. 1,1,1-trichloroethane

ug/L

128. 1,1,2-trichloroethane

ug/L

129. trichloroethylene

ug/L

130. trichlorofluoromethane

ug/L

131. vinyl chloride

ug/L

200. Acid Compounds

For all Acid Compounds, provide concentrations in micrograms per liter (ug/L):

Pollutant Name

Concentration

201. 2-chlorophenol

ug/L

202. 2,4-dichlorophenol

ug/L

203. 2,4-dimethylphenol

ug/L

204. 4,6-dinitro-o-cresol

ug/L

205. 2,4-dinitrophenol

ug/L

206. 2-nitrophenol

ug/L

207. 4-nitrophenol

ug/L

208. p-chloro-m-cresol

ug/L

209. pentachlorophenol

ug/L

210. phenol

ug/L

211. 2,4,6-trichlorophenol

ug/L



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Toxic Pollutants Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

300. Base/Neutral Compounds

For all Base/Neutral Compounds, provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
301. acenaphthene	ug/L
302. acenaphthylene	ug/L
303. anthracene	ug/L
304. benzidine	ug/L
305. benzo(a)anthracene	ug/L
306. benzo(a)pyrene	ug/L
307. 3,4-benzofluoranthene	ug/L
308. benzo(ghi)perylene	ug/L
309. benzo(k)fluoranthene	ug/L
310. bis(2-chloroethoxy)methane	ug/L
311. bis(2-chloroethyl)ether	ug/L
312. bis(2-chloroisopropyl)ether	ug/L
313. bis(2-ethylhexyl)phthalate	ug/L
314. 4-bromophenyl phenyl ether	ug/L
315. butylbenzyl phthalate	ug/L
316. 2-chloronaphthalene	ug/L
317. 4-chlorophenyl phenyl ether	ug/L
318. chrysene	ug/L
319. dibenzo(a,h)anthracene	ug/L
320. 1,2-dichlorobenzene	ug/L
321. 1,3-dichlorobenzene	ug/L
322. 1,4-dichlorobenzene	ug/L
323. 3,3'-dichlorobenzidine	ug/L



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Toxic Pollutants Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

300. Base/Neutral Compounds (continued)

Pollutant Name	Concentration
324. diethyl phthalate	ug/L
325. dimethyl phthalate	ug/L
326. di-n-butyl phthalate	ug/L
327. 2,4-dinitrotoluene	ug/L
328. 2,6-dinitrotoluene	ug/L
329. di-n-octyl phthalate	ug/L
330. 1,2-diphenylhydrazine (as azobenzene)	ug/L
331. fluoranthene	ug/L
332. fluorine	ug/L
333. hexachlorobenzene	ug/L
334. hexachlorobutadiene	ug/L
335. hexachlorocyclopentadiene	ug/L
336. hexachloroethane	ug/L
337. indeno(1,2,3-cd)pyrene	ug/L
338. isophorone	ug/L
339. naphthalene	ug/L
340. nitrobenzene	ug/L
341. N-nitrosodimethylamine	ug/L
342. N-nitrosodi-n-propylamine	ug/L
343. N-nitrosodiphenylamine	ug/L
344. phenanthrene	ug/L
345. pyrene	ug/L
346. 1,2,4-trichlorobenzene	ug/L



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Toxic Pollutants Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

400. Pesticides

For all Pesticides, provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
401. aldrin	ug/L
402. alpha-BHC	ug/L
403. beta-BHC	ug/L
404. gamma-BHC	ug/L
405. delta-BHC	ug/L
406. chlordane	ug/L
407. 4,4'-DDT	ug/L
408. 4,4'-DDE	ug/L
409. 4,4'-DDD	ug/L
410. dieldrin	ug/L
411. alpha-endosulfan	ug/L
412. beta-endosulfan	ug/L
413. endosulfan sulfate	ug/L
414. endrin	ug/L
415. endrin aldehyde	ug/L
416. heptachlor	ug/L
417. heptachlor epoxide	ug/L
418. PCB-1242	ug/L
419. PCB-1254	ug/L
420. PCB-1221	ug/L
421. PCB-1232	ug/L
422. PCB-1248	ug/L
423. PCB-1260	ug/L



Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Industrial Wastewater
Toxic Pollutants Form
Use With BWP IW 38 & BWP IW 39

W151393

Transmittal Number

Facility ID# (if known)

Permit Code

400. Pesticides

Pollutant Name

Concentration

424. PCB-1016

ug/L

425. toxaphene

ug/L

500. Total Toxic Pollutants*

5.12

ug/L

*Use this total in your answer to Question 6b in Section B of the BWP IW 38 & BWP IW 39 Permit for Industrial Sewer User application